

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG MF2B63 Case 43795 Contract EPW09039 Region 6 DDTID 183782 SOW ISM01.3

Data Review Reports

Blanks

Blanks	ICP_AES
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L
Blanks	ICP_AES
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L
Blanks	ICP_AES
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
	Potassium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75 , MF2B81 , MF2B84
Blanks	ICP_AES
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
	Potassium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84
Blanks	ICP_AES
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS60, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81, MF2B84
	Calcium LCS60 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B75 , MF2B81 , MF2B84

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG MF2B63 Case 43795 Contract EPW09039 Region 6 DDTID 183782 SOW ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B72L, MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B81, PBS69, MF2B72S
	Cobalt MF2B72L
	Beryllium MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81
	Antimony PBS69, MF2B72, MF2B72S
	Cadmium MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81
	Silver MF2B81, MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75
Blanks	ICP_MS
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBS69, MF2B72L, MF2B81, MF2B84, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B63, MF2B66, MF2B72S
	Vanadium PBS69, MF2B72L
	Selenium MF2B81, MF2B84, MF2B69, MF2B72, MF2B72D, MF2B75
	Arsenic MF2B72L
	Cobalt MF2B72L
	Beryllium MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81
	Antimony PBS69, MF2B72, MF2B72S
	Cadmium MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75, MF2B81
	Silver MF2B81, MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75
Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B81, MF2B72L, MF2B72A
	Cobalt MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B81
	Barium MF2B84, LCS69, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B81
	Beryllium LCS69, MF2B72S
	Antimony LCS69, MF2B72A
	Thallium LCS69, MF2B72S

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG MF2B63 Case 43795 Contract EPW09039 Region 6 DDTID 183782 SOW ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
	Cadmium LCS69 , MF2B72S
	Silver LCS69 , MF2B72S
	Lead MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
Blanks	ICP_MS
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B72A
	Vanadium MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75
	Selenium MF2B72S
	Arsenic MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Cobalt MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Barium MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Beryllium LCS69 , MF2B69 , MF2B72S
	Nickel MF2B81 , MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75
	Antimony LCS69 , MF2B72A
	Thallium LCS69 , MF2B72S
	Cadmium LCS69 , MF2B69 , MF2B72S
	Copper MF2B84 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75 , MF2B81
	Silver LCS69 , MF2B72S
	Lead MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72L , MF2B72S , MF2B75
Blanks	ICP_MS
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2B72 , MF2B72S
	Antimony MF2B72 , MF2B72S
Blanks	ICP_MS
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72S , MF2B75 , MF2B72A

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
	Vanadium MF2B81 , MF2B84 , LCS69 , MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B72S , MF2B75
	Antimony LCS69 , MF2B72A

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B81, MF2B84
	Mercury MF2B63 , MF2B66 , MF2B69 , MF2B72 , MF2B72D , MF2B75 , MF2B81 , MF2B84

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBS60, MF2B72L
	Calcium PBS60
	Potassium MF2B72L

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBS69, MF2B72L, MF2B81, MF2B84, MF2B69, MF2B72, MF2B72D, MF2B75, MF2B63, MF2B66, MF2B72S
	Vanadium PBS69, MF2B72L
	Selenium MF2B81, MF2B84, MF2B69, MF2B72, MF2B72D, MF2B75
	Arsenic MF2B72L
	Chromium MF2B72L
	Cobalt MF2B72L
	Beryllium MF2B81, MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75
	Antimony PBS69, MF2B72, MF2B72S
	Cadmium MF2B81, MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72L, MF2B75
	Silver MF2B81, MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B75

National Functional Guidelines Report #03

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 SDG MF2B63
 Case 43795
 Contract EPW09039
 Region 6
 DDTID 183782
 SOW ISM01.3

Data Review Reports

Duplicates

Duplicates	ICP_MS
NI04	The following Duplicate or original sample results are less than or equal to 5xCRQL and the absolute difference between duplicate and original samples are greater than CRQL. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Copper MF2B72D

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72D, MF2B72S, MF2B75, MF2B81, MF2B84

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2B63 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183782 **SOW** ISM01.3

Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B72A, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B81, MF2B84

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories)
 SDG MF2B63
 Case 43795
 Contract EPW09039
 Region 6
 DDTID 183782
 SOW ISM01.3

Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2B84, MF2B63, MF2B66, MF2B69, MF2B72, MF2B72A, MF2B72D, MF2B72L, MF2B72S, MF2B75, MF2B81

National Functional Guidelines Report #03

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Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_AES
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Manganese MF2B72S

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories)
 SDG MF2B63
 Case 43795
 Contract EPW09039
 Region 6
 DDTID 183782
 SOW ISM01.3

Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_MS
NG07	The following Matrix Spike samples have percent recoveries less than 30% and post-digestion spike samples have percent recoveries less than 75%. Detected analytes with results greater than or equal to MDLs are qualified J-. Nondetected analytes are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Antimony MF2B72S

National Functional Guidelines Report #03

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Data Review Reports

Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF2B63, MF2B66, MF2B69, MF2B72, MF2B75, MF2B81, MF2B84
	Arsenic MF2B72L
	Chromium MF2B72L